

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P317672

Luminaire Tested: **GAN-SA8A-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31936 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

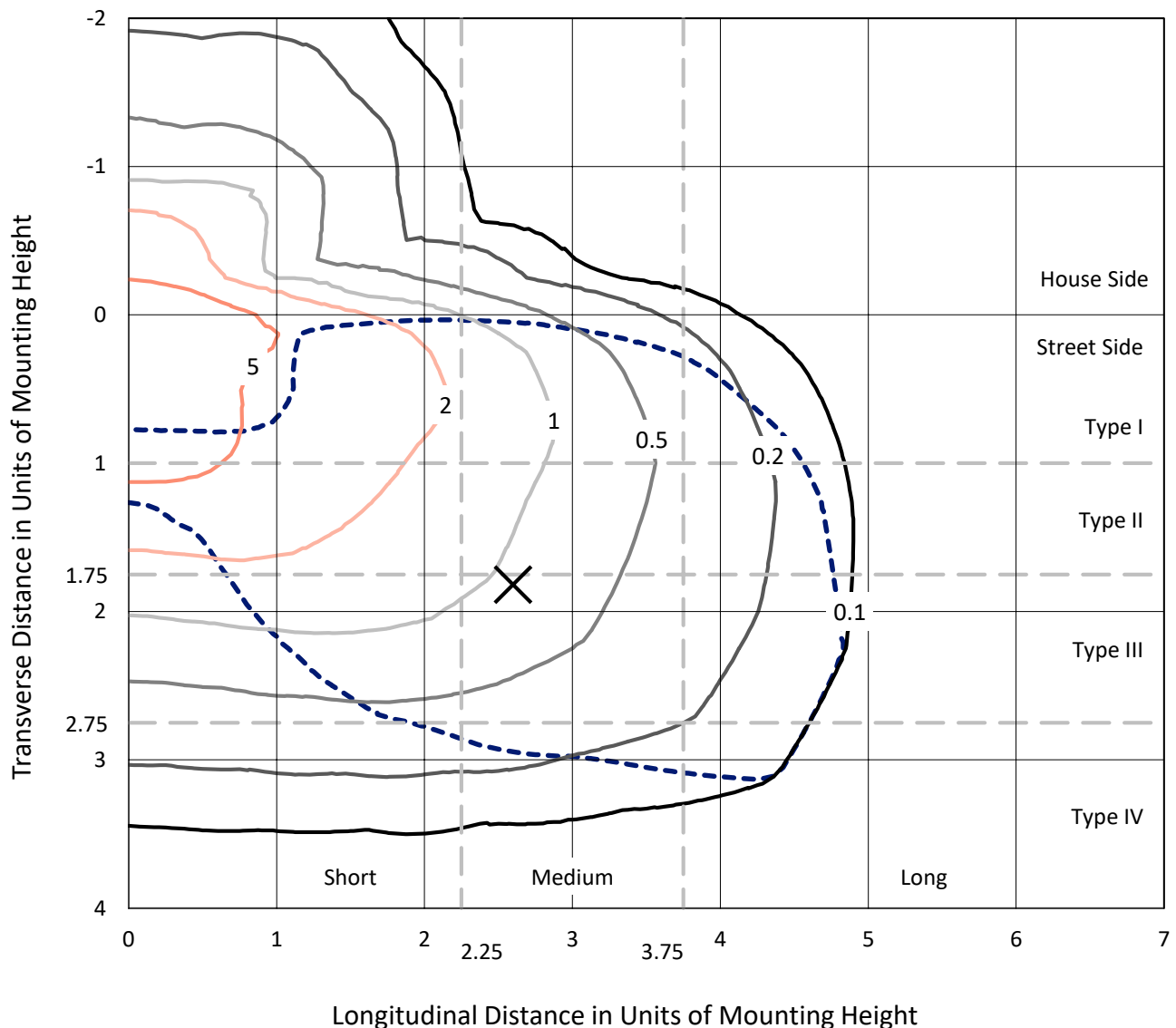
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

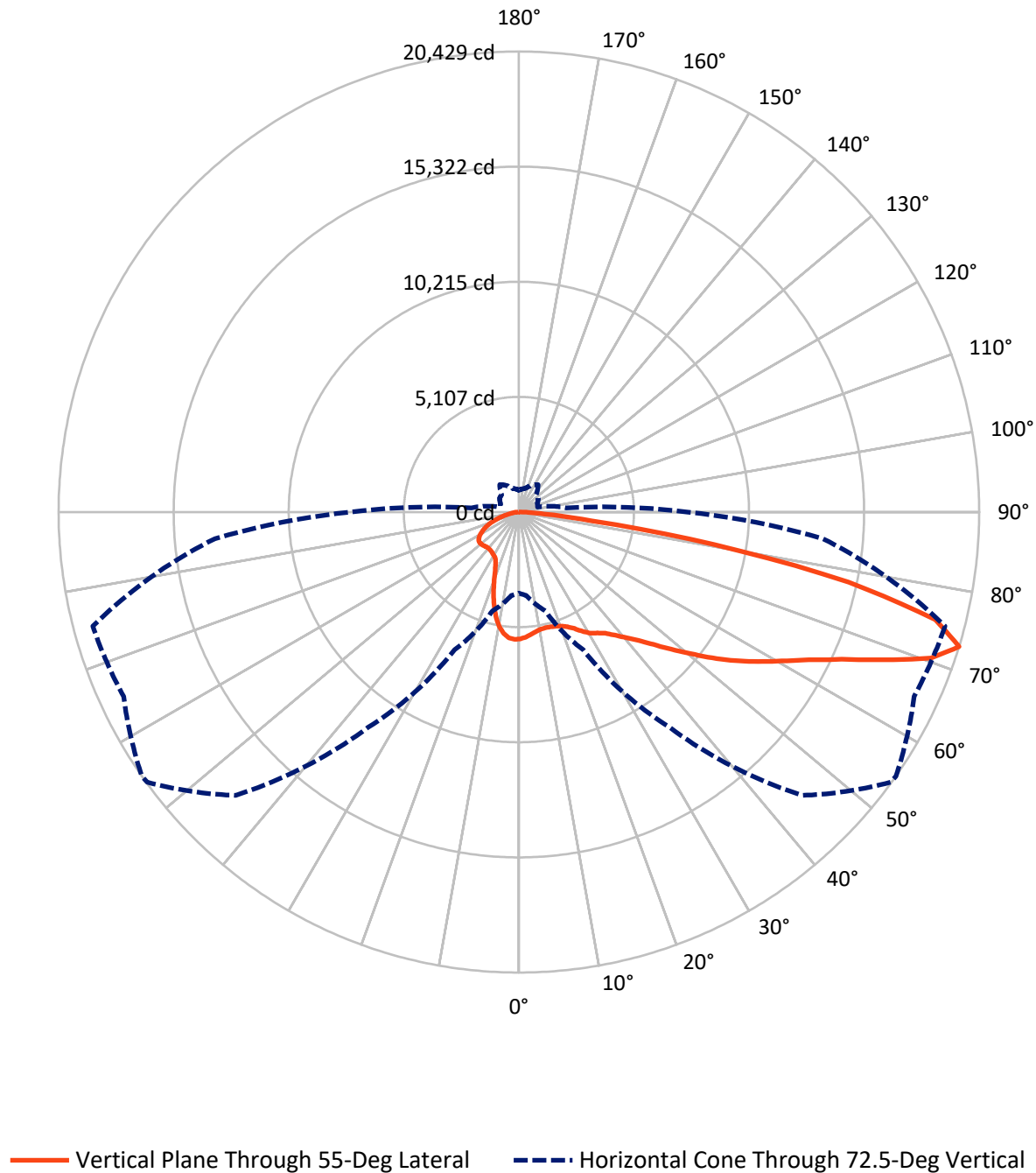
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5935.9	0.0	5935.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	26000.1	0.0	26000.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	31936.0	0.0	31936.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.7	1.6
10°-20°	1357.0	4.2
20°-30°	2237.4	7.0
30°-40°	3309.7	10.4
40°-50°	4619.6	14.5
50°-60°	6014.9	18.8
60°-70°	7392.1	23.1
70°-80°	5794.5	18.1
80°-90°	701.2	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	31936.0	100.0
0°-180°	31936.0	100.0

Coefficient of Utilization



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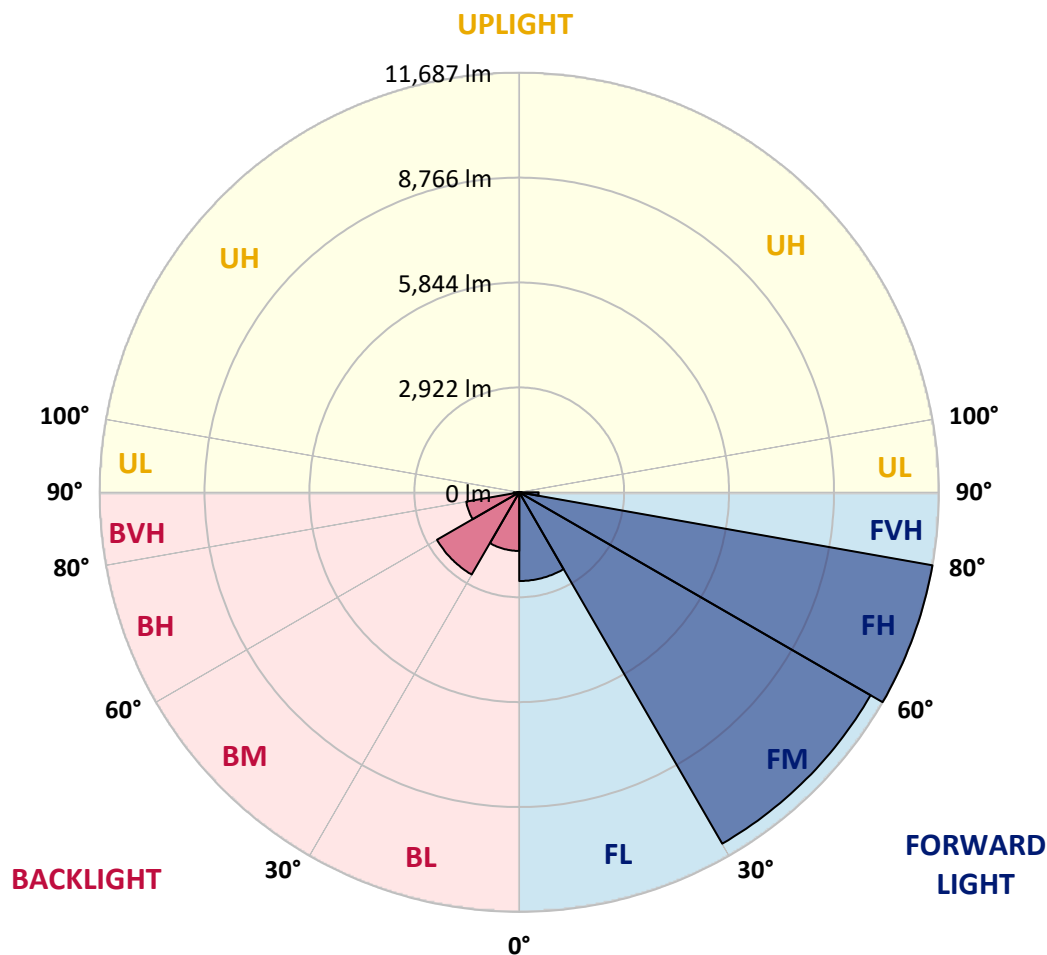
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2470.9	7.7			
FM	(30°-60°)	11299.6	35.4			
FH	(60°-80°)	11687.5	36.6			G4/12000
FVH	(80°-90°)	542.1	1.7			G4/750
BL	(0°-30°)	1633.2	5.1	B3/2500		
BM	(30°-60°)	2644.5	8.3	B3/5000		
BH	(60°-80°)	1499.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	159.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5632.8	5632.8	5632.8	5632.8	5632.8	5632.8	5632.8	5632.8	5632.8	5632.8	5632.8
2.5°	5449.4	5436.5	5452.7	5475.3	5500.1	5533.6	5553.0	5561.6	5595.1	5608.0	5636.1
5°	5197.0	5190.6	5217.5	5256.4	5311.4	5389.0	5451.6	5463.5	5551.9	5614.5	5671.7
7.5°	5013.7	5013.7	5044.9	5091.3	5152.8	5257.4	5345.9	5362.1	5512.0	5646.8	5752.6
10°	4868.0	4873.4	4910.1	4965.1	5037.4	5148.5	5266.1	5284.4	5501.2	5722.4	5890.6
12.5°	4771.0	4783.9	4817.3	4867.0	4956.5	5091.3	5240.2	5265.0	5523.9	5830.2	6056.7
15°	4832.4	4854.0	4857.3	4877.8	4927.4	5074.1	5255.3	5281.2	5572.4	5940.2	6245.5
17.5°	5102.1	5109.7	5076.2	5033.1	5009.4	5103.2	5300.6	5327.6	5630.7	6049.2	6426.7
20°	5512.0	5507.7	5435.4	5318.9	5198.1	5213.2	5375.0	5403.1	5709.4	6145.2	6607.9
22.5°	6029.8	6014.7	5903.6	5688.9	5482.9	5396.6	5505.5	5529.3	5828.1	6282.2	6802.1
25°	6657.6	6624.1	6477.4	6189.4	5886.3	5664.1	5701.9	5724.5	6000.7	6435.4	6980.1
27.5°	7319.9	7286.4	7099.8	6751.4	6348.0	6001.7	5972.6	5992.0	6197.0	6548.6	7111.7
30°	8012.4	7976.8	7806.3	7415.9	6837.7	6351.2	6225.0	6232.6	6335.0	6610.1	7219.5
32.5°	8708.1	8674.7	8483.8	8030.7	7369.5	6726.6	6407.3	6397.6	6418.1	6673.7	7341.4
35°	9413.6	9426.5	9203.2	8701.6	7958.4	7144.0	6623.0	6602.5	6557.2	6804.3	7514.0
37.5°	10168.6	10160.0	9870.9	9346.7	8574.4	7597.1	6932.6	6929.4	6773.0	7051.3	7784.8
40°	10673.5	10678.8	10503.0	10006.8	9196.8	8098.7	7329.6	7322.0	7117.1	7421.3	8139.7
42.5°	10870.9	10906.4	10951.8	10636.8	9848.3	8680.1	7803.1	7792.3	7597.1	7952.0	8557.1
45°	10884.9	10956.1	11236.5	11196.6	10508.4	9345.6	8408.2	8378.0	8237.8	8657.4	9055.4
47.5°	10764.1	10837.4	11303.4	11529.9	11098.5	10047.8	9115.9	9092.1	8971.3	9539.8	9594.8
50°	10499.8	10569.9	11165.3	11692.8	11583.9	10723.1	9931.3	9868.8	9804.0	10559.1	10211.8
52.5°	10004.7	10139.5	10980.9	11731.6	11874.0	11322.8	10788.9	10747.9	10783.5	11634.6	10829.9
55°	8832.2	8983.2	10505.2	11699.3	12088.7	11826.6	11646.4	11644.3	11828.7	12762.8	11493.2
57.5°	8175.3	8282.0	9536.5	11644.3	12343.2	12327.1	12495.3	12515.8	12875.0	13991.4	12187.9
60°	7804.2	7916.4	9045.7	11440.4	12738.0	12974.3	13361.5	13402.5	13938.6	15351.7	13023.9
62.5°	7466.6	7589.5	8741.6	11025.1	13202.9	13899.8	14399.2	14435.9	15064.7	16749.6	13831.8
65°	6889.5	7028.6	8296.1	10752.2	13625.8	15106.8	15718.4	15743.2	16358.1	18214.4	14449.9
67.5°	6074.0	6201.3	7455.8	10149.2	13938.6	16572.7	17472.3	17486.3	17640.6	19248.9	14765.9
70°	5121.5	5170.1	6258.5	8904.4	13568.6	17943.7	19394.5	19397.8	18809.9	19911.2	14714.2
72.5°	3598.4	3712.8	4543.4	6740.6	11660.4	17776.5	20392.3	20429.0	19353.5	19576.8	13538.4
75°	2207.0	2327.8	2849.9	4084.9	7397.5	13980.7	18841.2	19095.7	18334.2	17455.1	11059.6
77.5°	1475.6	1520.9	1859.6	2381.7	3351.4	8043.7	14485.5	14964.4	15230.8	12729.4	7072.8
80°	823.0	909.3	1232.9	1479.9	1490.7	3196.1	8685.5	8797.6	8474.0	5068.7	2182.2
82.5°	435.8	483.2	823.0	869.4	813.3	1070.0	3237.1	3240.3	2707.5	1359.1	648.3
85°	337.6	377.5	564.1	530.7	415.3	474.6	1067.9	1126.1	921.2	556.6	211.4
87.5°	168.3	209.3	382.9	336.5	162.9	135.9	381.8	407.7	363.5	217.9	76.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5632.8	5632.8	5632.8	5632.8	5632.8	5632.8	5632.8	5632.8	5632.8	5632.8	5632.8
2.5°	5646.8	5656.6	5668.4	5655.5	5651.2	5633.9	5604.8	5598.3	5583.2	5584.3	5592.9
5°	5696.5	5712.6	5706.2	5656.6	5597.2	5514.2	5427.9	5354.5	5306.0	5302.7	5299.5
7.5°	5791.4	5802.2	5751.5	5610.2	5444.1	5252.1	5070.8	4912.3	4816.3	4792.5	4787.1
10°	5940.2	5938.1	5798.9	5514.2	5183.0	4840.0	4548.8	4328.7	4200.3	4162.6	4152.9
12.5°	6106.4	6081.6	5815.1	5339.4	4814.1	4338.4	3969.5	3724.7	3590.9	3547.8	3537.0
15°	6277.9	6216.4	5775.2	5078.4	4361.1	3798.0	3410.8	3184.2	3112.0	3088.2	3083.9
17.5°	6437.5	6318.9	5660.9	4724.6	3844.4	3259.7	2957.7	2867.1	2884.4	2915.6	2916.7
20°	6593.9	6387.9	5477.5	4278.0	3299.7	2816.4	2713.9	2780.8	2862.8	2926.4	2935.1
22.5°	6748.2	6436.4	5241.3	3762.4	2812.1	2567.2	2639.5	2761.4	2855.2	2924.3	2936.1
25°	6877.6	6448.3	4915.5	3212.3	2473.4	2473.4	2603.9	2719.3	2812.1	2880.1	2891.9
27.5°	6925.1	6368.5	4456.0	2703.2	2303.0	2430.2	2554.3	2650.3	2729.0	2801.3	2814.3
30°	6943.4	6220.7	3925.3	2294.3	2232.9	2383.9	2487.4	2569.4	2643.8	2711.8	2723.6
32.5°	6946.6	6042.7	3362.2	2062.4	2184.3	2335.3	2404.4	2476.6	2556.5	2583.4	2587.7
35°	6967.1	5832.4	2769.0	1943.8	2139.0	2290.0	2345.0	2396.8	2267.4	2277.1	2285.7
37.5°	7026.5	5624.2	2272.8	1876.9	2109.9	2266.3	2332.1	2144.4	2043.0	2019.3	2016.0
40°	7137.6	5402.0	1904.9	1823.0	2099.1	2278.2	2249.0	2002.0	1827.3	1696.8	1677.3
42.5°	7291.8	5162.5	1669.8	1787.4	2106.6	2335.3	2133.6	1865.0	1574.9	1490.7	1479.9
45°	7465.5	4911.2	1542.5	1762.5	2132.5	2379.5	2109.9	1682.7	1457.3	1393.6	1388.3
47.5°	7633.8	4603.8	1476.7	1751.8	2168.1	2344.0	2009.6	1626.6	1401.2	1367.8	1371.0
50°	7826.8	4326.6	1436.8	1739.9	2199.4	2321.3	1896.3	1597.5	1379.6	1420.6	1463.8
52.5°	7989.7	4039.6	1401.2	1716.2	2211.3	2281.4	1867.2	1602.9	1379.6	1458.4	1499.4
55°	8182.8	3822.8	1360.2	1666.5	2188.6	2168.1	1846.7	1635.3	1395.8	1346.2	1350.5
57.5°	8432.0	3751.6	1314.9	1588.9	2113.1	2003.1	1837.0	1666.5	1386.1	1354.8	1365.6
60°	8777.2	3827.1	1296.6	1487.5	1995.5	1873.7	1838.1	1650.4	1318.1	1264.2	1265.3
62.5°	9106.1	3911.3	1295.5	1423.8	1851.0	1758.2	1813.2	1597.5	1283.6	1252.3	1264.2
65°	9214.0	3826.0	1243.7	1352.7	1688.1	1620.2	1767.9	1541.4	1257.7	1210.3	1208.1
67.5°	9069.5	3561.8	1139.1	1237.2	1501.5	1459.4	1708.6	1474.5	1216.7	1177.9	1171.4
70°	8640.2	2971.7	1009.6	1085.1	1289.0	1278.2	1614.8	1396.9	1161.7	1128.3	1100.2
72.5°	7484.9	2117.4	851.1	902.8	1049.5	1084.1	1485.3	1295.5	1084.1	1011.8	968.6
75°	6147.3	1567.3	699.0	709.8	797.1	891.0	1307.4	1176.8	992.4	869.4	836.0
77.5°	3764.6	958.9	556.6	560.9	571.7	710.8	1076.5	1044.2	875.9	724.9	701.1
80°	1218.9	523.2	402.3	422.8	390.5	521.0	832.7	888.8	751.8	606.2	580.3
82.5°	463.8	305.3	271.8	285.8	270.7	349.5	607.3	711.9	615.9	498.3	405.6
85°	224.4	172.6	160.7	180.1	167.2	179.1	388.3	524.2	467.1	324.7	302.0
87.5°	79.8	76.6	61.5	83.1	71.2	63.6	118.7	264.3	308.5	223.3	199.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)